



Vol. XLVIII—No. 13

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FEWER LECTURES IS PLEA OF STUDENTS

PHYSICS COURSES RECEIVE GREATEST SHARE OF COMMENT

Replies on Questionnaire Show Varied Views on Course Improvement

LECTURE ROOM TOO BIG

Final tabulation of the comments and answers on the questionnaires relating to the two elementary physics courses showed an almost unanimous desire of those replying to eliminate at least part of the lecture periods and allow recitation hours instead. "A week's work is too much for one hour of class discussion," was a common feeling, and some even suggested that the freshman and Sophomore courses be run just as are those in mathematics and English, with three class hours each week.

While viewpoints often conflicted, there were several ideas expressed in a similar way by a fair share of the writers. A number complained that the lecture room was too large to enable those in the back to see and hear clearly. A few called the problem hour useless. There were those who felt that the laboratory period also was useless without previous class discussion.

Some conflict occurred in the suggestions about the books used. Several said the books were quite sufficient, and contained all that was given in lecture, while others thought that they were far too brief. Two students complained that the lack of incentive to study a week ahead of time made them wait till it was too late to do the next morning's problems. "Spoon fed" was another verdict.

Of the total circulation of THE TECH among the student body, approximately thirteen percent of the readers returned the questionnaires properly filled in. Of this number nearly a third selected one of the Physics courses to criticize. Among this latter number very few had failed in the course—somewhat less than a sixth.

The first group of questionnaires was submitted to the head of the Physics department for consideration before any information concerning the results had been published. It is intended to follow this plan with the remainder of the courses.

Means Prize To Be Awarded For Best Air Essay

Essay on Air Communications Due March 31—Contest Open To All

The James Means Memorial Prize for the year 1928 will be awarded to the winner of the aircraft communication essay contest which will end at 1 o'clock on March 31. This contest is open to any undergraduate at the Institute, and contestants may choose any title for their subject, provided the essay is confined to aircraft communication in any or all of its phases, with the exception of radio communication. This exception was made so that the essays would not become too technical, and so that the lesser known means of communication will be discussed.

Deeply interested in aeronautics, the late James Means wrote several books on the subject, and predicted 25 years ago that the heavier than air machine would be more practical than the lighter than air machine which was in vogue at that time.

Each contestant in the contest is supposed to make the essay his own work entirely, about three or four thousand words in length, and type-written on one side of paper 8½x11 inches. Each candidate is to sign his essay with an assumed name, and is to enclose his real name in an envelope which is to be handed in, together with the essay, in a large plain envelope marked only "Essay for James Means Memorial Prize."

ENGINEERS DOWN TERRIERS 39-35

Both Teams Battle Furiously Throughout the Entire Contest

By Jack Sullivan '29

In a game that was replete with thrills from start to finish, a fast Technology quintet dribbled and passed its way to a hard earned victory at the expense of Boston University on Wednesday evening at the Hangar Gym. It was the last contest of the season for the Engineers and every man on the squad seemed to realize the fact. Time after time the Boston forwards would pile up a lead only to have it taken away a few minutes later as the Beaver attack was unleashed.

Brig Allen and Johnny Reynders were in top form. Brig accounted for 17 of the 39 total while Johnny, playing his last game for the Cardinal and Gray scored 10 points making his high total for the season 108. Bartlett and Soutiere were outstanding for the intown school. Neither team had any distinct advantage over the other and it was only a rally in the closing minutes of play that gave the Engineers a victory and allowed them to balance their season's record of seven victories and seven defeats.

B. U. Tallies First

Boston opened the scoring early in the first period when Soutier and Cohen worked their way through in combination. Brig Allen then caged two very neat baskets to take the lead. Bartlett of B. U. tailed and Johnny Reynders regained the lead. For the remainder of the period both teams played a see-saw game. In the final minutes Bartlett and Soutiere broke through the M. I. T. line to take the lead 17-15.

Technology came out in the second period to start a much faster offense. Brig Allen tied up the score on a shot from just beyond the foul line. Continuing the see-saw style of the previous period Soutiere caged a free throw for the Terriers. At this point the Engineers suddenly came to life and literally swept their opponents off their feet. Reynders, Ailen and Brockelman conducted a highly efficient barrage at the B. U. cage until the score was 27-21.

Score Tied at 27-27

With this lead in their favor the Cardinal and Gray faltered momentarily and Boston, quick to take advantage of their opponent's let loose an attack of their own. Cohen, Soutiere and Bartlett conducted this campaign and when the damage had been done the score was again tied at 27-27. By this time the spectators were in a frenzy and still the result of the game was in as much doubt as ever.

After three quarters of the period had elapsed the Engineers had accumulated a total of 35 against Boston's 33. The Cardinal and Gray scored twice more bringing the count to 39 and then with only minutes to go for the end of the game the Terriers made one last desperate rally. Soutiere caged a difficult one from the side, missed two free tries, and was on his way toward the basket again when the whistle sounded and the Engineers had earned their victory.

The summary:

M. I. T.	G.	F.	P.
Reynders, rf	5	0	10
Bates, rf	0	1	1
Allen, lf	7	3	17
Johnson, lf	0	0	0
Brockelman, c	3	0	6
Estes, rg	0	2	2
Lawson, lg	1	1	3
Nelson, lg	0	0	0
Totals	16	7	39
B. U.			
Soutiere, lg	4	1	9
Bartlett, rg	4	3	11
O'Brien, rg	1	0	2
Congdon, c	0	1	1
Cotter, c	1	1	3
Nims, lf	0	1	1
Smith, lf	0	0	0
Zandon, lf	0	0	0
Cohen, rf	4	0	8
Totals	14	7	35
Referee—Keleher. Time—Two 20-minute periods.			

DORM MEN STAGE THEATRE PARTY AT OLD HOWARD

85 Men of the "Holman Club Of Boston" Applaud "Ginger Girls Burlesque"

FLOOR IS NOT FLOODED

Just as Charlie Chaplin's four year old photoplay "Sunnyside drew to a happy ending at 7:30 o'clock last night 85 Technology Dormitory men filed into the Old Howard Theatre and confiscated the entire fifth, sixth, and seventh rows of the orchestra section. As the leading lady of the "Ginger Girls Burlesque," Loretta Love, came out for the opening song the audience heard the first burst of applause of the evening.

"Getch-er-self a large delicious box of orange gumdrops gentlemen, only ten cents, one dime, one tenth of a dollar, the real true flavor of the Florida orange trees," bellowed a whitecoated candy vendor as the special officer of the theatre ampled down the center aisle and gently reminded the occupants of the sixth row orchestra to be a little less noisy.

This rather dampened the spirit of the party and the applause was rather sparse until, Miss Sylvia Pearl, a rather stalwart young (?) lady sang "Marvelous" and encored with a regular Howardian dance. The dorm men claim that the chorus was good in spots but the mean weight of the right side of the line was far above the All-American average.

It is alleged that upon calling up the box office of the Old Howard and asking the reservation of three rows for men from the Technology dormitories the request was refused with a typical hard-boiled rebuff. Not to be done out of their party the dorm men again phoned down and asked for 85 tickets for the "Holman Club of Boston." Many members of the attending club brought their friends from the "Runkle," "Atkinson," "Nichols," "93," "Ware" and "Crafts" Clubs.

Debating Team to Meet University Of Maine Tonight

Technology Men Enter Sixth Debate of Season With Clear Record

Maine University's team will be the opponents of the Institute debaters when the two teams meet at Rogers Building tonight at 8 o'clock. The subject will be the one which the Technology team has used all year. "Resolved, that the United States should cease to protect, by armed intervention, capital invested in foreign countries, except after formal declaration of war." The Institute men will take the negative side of the question.

Last year, when the two teams met, Technology won by a unanimous decision of the judges, but this year, the Maine team is an entirely different one than last, auguring a good debate. The Maine team is composed of two Sophomores and a freshman, Charles E. O'Connor '30, Edward Stern '30 and Edward J. Greeley '31, while the Institute team will be composed of Solomon Horwitz '29, Willard F. McCorkindale '28 and Paul V. Keyser '29. Dr. Tryon, Assistant Registrar, will be chairman of the debate, while the judges have not yet been announced.

This is the sixth debate for the Institute team this year, the team having won the five previous ones, four by a unanimous decision. Among the teams defeated were the well known team of C. C. N. Y., which met its first defeat in three years at the hands of the Tech team, Lafayette, Temple, New Hampshire and Middlebury. There are left on the present schedule debates with Clark University, the University of Vermont, and California Institute of Technology. The debate with the University of Vermont will be unique in that there will be no decision, any one of the debaters may take the side he chooses.

BARBARY COAST ORCHESTRA PLAYS AT THE SOMERSET FOR SOPHOMORE DANCE TONIGHT

EXPECT CAPACITY CROWD; FEW MORE TICKETS ARE LEFT

Plan Continuous Music After Midnight With Aid of Techtonians

PRESENT SPECIALTY ACTS

Under the soft colored rays of slowly playing spotlights about 400 couples will dance to syncopated strains played by the Barbary Coast Orchestra at the Sophomore Dance in the Louis XIV Ballroom of the Hotel Somerset. This will be the first dance of the year drawing an attendance from the entire student body.

Starting at 9 o'clock, the Barbary Coast Ensemble from Dartmouth will play alone until midnight, interspersing their program of music with a few of their specialty acts. This orchestra has played frequently in Boston at various Harvard-Dartmouth affairs, and in this way has made an enviable reputation for itself in Boston. They have won recognition in intercollegiate contests as the best college orchestra in the East.

At midnight there will be an intermission of half an hour, and following this the Techtonians, as the second orchestra of the evening, will assist in furnishing continuous music. This will be played until 2 o'clock, when the dance ends, and will be maintained by the orchestras playing alternate numbers.

Special arrangements have been made with the management of the Hotel Somerset to enable those at the dance to purchase refreshments at a special price. These will be served from a buffet counter in the "Palm Room" of the hotel during the half-hour intermission. A man will be on hand at the entrance to the ballroom to sell refreshment tickets to any of those men who want them.

Ticket sales are equaling the expectations of the committee, but as there are a few tickets still left, the sales will be continued this morning. They will be called in as soon as the quota of 500 is approached. The price is \$2.50 per couple.

As chaperones for the party the committee has arranged to have Prof. and Mrs. Henry G. Pearson, together with Mr. and Mrs. Orville B. Denison attend the party. Both men have shown a great deal of interest in the affairs of the class, it is reported.

FRESHMEN TO HOLD DANCE ON APRIL 27

April 27 has been set aside for the first freshman dance of the year, it was definitely decided on Wednesday evening. A dance committee has been chosen by the class officers and is already working on making arrangements for the affair.

Robert B. Freeman was chosen chairman of the committee in charge of the dance. The other members are as follows: Kenneth R. Smith, secretary; John W. Carleton, Jr., Tinsley W. Rucker, John Elting, Philip D. Hardy, Kenneth B. Lucas, Robert W. McNeilly, Glen Goodhand, Joseph C. Noyes, Ralph Davis, Bernard T. Stott, Frank L. McKnight, Gardner Dean and Warren Dickinson. The first meeting of the committee will be held at 403 Memorial Drive next Wednesday evening at 7:30 o'clock.

CALENDAR

Friday, March 9
3:00—Automotive lecture by Dr. C. Winson, Room 3-270.
4:00—Poplar Science Lecture, Room 10-250.
8:00—Debate with University of Maine, Rogers.
9:00—Sophomore Dance, Hotel Somerset.
Saturday, March 10
2:30—Poplar Science Lecture, Room 10-250.
Sunday, March 11
4:00—Poplar Science Lecture, Room 10-250.

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HOPE FOR THE FUTURE

ON THE front page of this issue is given a general summary of questionnaire results as applied to the two Physics courses. It is rather noteworthy that practically every one of those responding was of the opinion that the two courses would be greatly improved were the lectures to be cut down in number, their place being taken by class room discussion and recitation.

We are inclined to agree very strongly with this prevalent opinion, and have been assured that more than likely some such change will take place in the system within the present year. In conferences with a number of the instructors and the Faculty, we have learned to appreciate the eagerness of the Physics Department to make whatever changes are necessary to further the instructional methods. However, it must be remembered that the creation of even one more recitation hour a week for the two lower classes would involve such expense and trouble that the department must think more than once before taking such a step.

The present group of instructors in the Physics Department is entirely too small to care for twice the number of class hours that are now given. Competent instructors are not the easiest things to find, and that alone might seem enough excuse to allow conditions to remain unchanged. Yet we feel that even this is a situation which should see a change in the near future. Basic as the subject is, possible means of making it more understandable should not be avoided.

A similar point is that of the hugeness of the lecture room. Good promise is also given through the coming change of relieving this difficulty. Complaints that excessive distance from the lecturer interferes with a clear conception of what he says and does is only logical. Assurance was given us that means will soon be taken to remove the cause of this grievance.

Comment has been made upon the fact that the returns on the questionnaire did not represent the majority opinion in the school, and that the frequent conflict of viewpoints pointed to a lack of definite failing in any of the courses. It would appear to us that the questionnaires written came from those who had the most interest in improvement in the curricula, and hence from those whose opinions were worth a second thought.

Volume XLVIII regrets to announce the resignation of Sears L. Hallett '29 as Advertising Manager.

Noted Writer Severely Censures Present-Day Educational System

Kathleen Norris Recommends Small School With No Fraternities

"College is an artificial atmosphere peopled by irresponsible young persons whose parents are generous enough to assume, for four or five unnecessary years, entire financial responsibility for their clothes, dances, cars, and meals." Thus says Kathleen Norris in her syndicated article, "Why Most American Colleges Unit Their Students for Real Life." It is particularly scathing in remarking the reasons girls attend college, but her bitter condemnation of the present system of higher education for all young people is clearly felt throughout.

Miss Norris feels that "grown-ups accept the college theory because it solves the difficult question of what to do with the children now; it is the thing to go to college." But as for any benefit the student himself gets, she thinks it nil. No one, she says, ever spoke French comfortably after taking courses in the language at col-

lege; the student is not going to find any use for the knowledge of history, trigonometry or classic myths; any intelligent adult could cover a year's college work in architecture, physics, or any language in six weeks of concentrated work.

"If colleges could teach real concentration—HOW TO LEARN—they need never touch another thing," continues this noted writer. With this end in view, she suggests the "ideal college," a small institution, one for every city district and small town, where the students would go for a one-year's course, a course entirely composed of psychology. It would have no fraternities, sororities, or athletics; it would be a place merely to teach the mental and physical technique of learning; the students would find out where to go if, in later life, they wanted to study some particular subject. While attending this small school the students would live at home; thus, she feels, a great deal of shortcomings of the present system would be done away with.

This thought is left with the reader: "Does college mean education to you, or merely change, independence, irresponsibility, and a good time?"

THE TECH BOOK LIST

REAL HUMOR

The Great American Band Wagon, by Charles Merz. \$3. The John Day Company, N. Y. 263 pages.

Here is a book that will be talked about. It has been elected by the Literary Guild as its February choice, and it well deserves this honor. The book has been called "A Study of Exaggerations" but this phrase does not do it justice, because it suggests the cool, precise manner of academic examination. The contrary is quite true. The author has embraced a wealth of data in his volume, but he has written it so cleverly and humorously that it is impossible to read a page without laughing.

"The Great American Band Wagon" is a humorous satire on the amusements and hobbies of us Americans. Charles Merz, the author, is a newspaper man with a very marked gift of expression. His writing has back of it the knowledge of the modern news game and a faculty for correlation of detail which excels anything we have read. His remarks are not sarcastic, nor are they filled with malice—the author has no axe to grind; he writes about the things all around us which make up our very life, so it is no wonder that his subject has interest.

Such chapter heads as "Big Business Discovers the Bathing Beauty," "Bigger and Better Murders," "Plus Fours," "Roll Your Own Diploma" and "Headline Heroes" suggest the enjoyment that is awaiting the reader. The Soda Fountain, Radio, Prize Fights, Movies, and Secret Lodges come in on the frying pan too, and the author makes one feel as if he were a god looking down on this land of "milk and honey" and getting a huge laugh out of its eccentricities.

G. I. C.

DANTON

DANTON, by Hilaire Belloc. New York: G. P. Putnam's Sons. \$5.

Too often the study of historical events loses its interest through much unnecessary attention paid to facts without any insight into the environment and the personalities which molded those incidents. By taking an outstanding individual and making him live for us, Mr. Belloc in "Danton" has presented the French Revolution far more forcefully than mere facts could ever do it.

Instead of starting his biography in the customary way with a record of Danton's ancestors, the author presents a summary of the history of France from early times through the Revolution. Here he shows us clearly why the Revolution was inevitable, and pictures the environmental conditions in which it took place. The bird's-eye view of the whole Revolution given before entering into the details, offers a framework on which the complete picture can be gradually developed.

Danton stands out in this picture as almost the only diplomat and statesman among a multitude of soldiers, poets, pedants, and theorists. His sole thought was for France, and he wished steer in the middle course between absolute monarchy and anarchy. It was his guiding hand that prevented complete collapse during the early period of the Revolution. The story of how the war government that he formed as an emergency measure, after it had succeeded in its purpose, came into the hands of the extremists and lead eventually to Danton's death holds all the interest of a novel.

Mr. Belloc maintains the appeal of his work through the forceful presentation of an outstanding individual and his environment, rather than by the anecdotes which have little or no significance. His literary quality and his dramatic ability illuminate to the advantage the interesting and important period of the French Revolution and one of its most outstanding characters.

H. T. G.

"LEAD MINING" TITLE OF CHEMISTRY MOVIES

"Ore Smelting and Mining of Lead" was the subject of the five-real motion picture shown in Room 10-250 yesterday afternoon under the auspices of the Department of Chemistry.

According to authorities, this was one of the most interesting of the chemical series. The pictures showed the tremendous mechanical appliances used in the lead industry, and the method of their operation. One of the feature reels was a trip through the long underground galleries of the mine while the miners were at work. Another reel was devoted to the so-called "Frost Flotation Process," the working of the ore and the casting of the molten lead into solid bars.



Herewith the Lounger announces elections to his latest honorary society, the L. O. W. A., formed in secrecy and perpetuated in secrecy, sacred to the glory of the infamous. And it is with pleasure indeed that he selects as the very first charter member of his society, Leonard Magruder Passano, now L. O. W. A., on the very righteous grounds that Sneaker Joe is now a Grandpa!

* * *

What ho—a grand-dad in our midst! And who'd a thought that our own Sneaker Joe was already even unto the third generation. No longer shall he be known as mere "Sneaker Joe," the Lounger proclaims. Henceforth shall he be no less than Grandpa Passano, L. O. W. A. Besides, that puts him over a lap ahead of most of the rest of the Faculty.

* * *

Ever see Stolidy Barrss play sweet syncopation on the typewriter? The Lounger was strolling down the halls of building four yesterday afternoon, when a sound like that a wood-pecker makes when he's all worn out came floating forth from the Franklin-Barrss sanctum. The Lounger peeked in the doorway: there was Stolidy stolidly hunting all over the keyboard for a "p". Ah, yes, there it was way up in the corner; now for the x—and so on into the afternoon. The Lounger has never seen a more impressive picture of the good old physical accuracy and painstaking effort. If anybody wants the makings of a good stenog, let him go to the Physics Department—but let him be sure not to take Stolidy Barrss by mistake.

* * *

Wallie Ross says he's found his rubbers.

* * *

The Lounger understands that Matty looks like an eligible man for the twenty-yard dash in some young college where they go in for sport that heavily. It seems that Matty didn't have the chin strap of his hat securely fastened, and when Mr. Wind noticed the slight, off went the hat, and off went Matty after it. Matty won thumbs down.

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REPERTORY: "The Way of the World." Will Congreve may sleep in peace.

SHUBERT: "Countess Marita." Pleasing operetta.

WILBUR: "The Road to Rome." Jane Cowl knows her mathematics.

PLYMOUTH: "Saturday's Children." Reviewed in this issue.

SCREEN

METROPOLITAN: "Red Hair." Written by Elinor Glyn for Clara Bow.

LOEW'S STATE: "The Dove" with Norma Talmadge. Ruth Elder advertised as first girl to fly the Atlantic.

TREMONT: "Wings." Two days to go.

ELECTRICALS TO HEAR MEASUREMENTS TALK

Mr. A. F. Corby of the Weston Electrical Instrument Corporation will address the members of the M. I. T. Branch of the American Institute of Electrical Engineers and all others who are interested in his subject in Room 5-330 this afternoon at 3 o'clock. The subject of his talk and of the film which he has with him is "Principles of Electrical Measurements."



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BEAVER BASEBALL WILL START TODAY

Prospects Are Good For Strong Team With Many Veterans For A Nucleus

Beaver baseball starts today at the Institute with a mass meeting in 2-190 at 5 o'clock. One of the best schedules in years has been arranged and with transfers and freshmen as well as upper classmen eligible, the Beavers are expected to have one of the best teams in years.

All men in the Institute, this includes upper classmen, freshmen and transfers, who are interested in baseball are urged to be present at the baseball meeting to be held Friday March the 9th, in room 2-190. The purpose of the meeting is to discuss the season's plans and to make arrangements for early workouts for the battery candidates.

The prospects for a successful season are exceptionally bright. There are a good number of last year's men back at the Institute this year who will be eligible for this season's team. Marshall David, first string catcher of last year's team will be ready for action and will be given plenty of opposition by Walter Burke, who held up the frosh hurlers in great style last season.

Pitching candidates for the Beavers will be plentiful as well as men of experience. From the remains of last year's first string staff, there are two dependable hurlers left in Brig Allen and Joe Farwell who were the two best performers a year ago. In addition to this pair of veterans there comes up from the freshman ranks two formidable flingers who should develop into first string pitchers. The two likely candidates for the position are Tom O'Connor, who bore the brunt of the frosh pitching a year ago and Jud McHugh who alternated at second base when not on duty on the mound.

Frank "Deacon" Crandell, captain of last year's Beaver outfit will be missed and will leave a gap to be filled at the initial sack. Phil Riley, first sacker of last year's frosh team and Carl Bernhardt, Beaver player of three years ago are eligible for the position. The remainder of the infield will be intact with Bill Cullinan at the hot corner, Paul Donahue at short and Fred Riley at the keystone sack. From last year's yearling aggregation, there are several good men of varsity calibre. Louie LaPointe at third for last year's frosh was the team's heaviest sticker and will give Cullinan a good run for the position. Chuck Smith, Cliff Street, from the 1930 team will be possible candidates for the team.

In the outfield, there are several men from last year's Beaver and freshman team. Tacks Crosby, Pat Crotty, Bill Spahr, Dan Lucey, Bowley Lynch, will be in action for a job in the outer garden.

Practice for the battery candidates will probably be started at the beginning of next week in the Hangar gym, which will afford the candidates a means of getting limbered up. Bill Stewart, present hockey coach will take the hurlers in hand for the early part of the season at least. Manager Phil Riley has not yet announced the selection of a regular coach and at present is negotiating for the services of a first class mentor.

SYRACUSE FENCERS OPPOSE TECHNOLOGY

Winner Reaches Semi-Finals in Eastern Group of League

Technology's Varsity Fencing team will meet the Varsity Fencing team of Syracuse University in a match to be held in Walker Memorial Gym at 8 o'clock tonight. It is the last match scheduled for the Cardinal and Gray for this season and gives promise of being very interesting. The Syracuse team will oppose Harvard on Saturday.

In the intercollegiate fencing competition there are two groups consisting of the Army, Navy, Columbia, Cornell, N. Y. U., Ohio State, U. of Pennsylvania, and Princeton in one bracket and Dartmouth, Harvard, M. I. T., Yale and Syracuse in the other.

So far this year Technology has had hard luck in losing some of its meets by very close margins. If Syracuse is beaten tonight M. I. T. will move into the semi-finals. Two victories are necessary in the semi-finals for qualification in the finals.

The M. I. T. Fencing team consists of Capt. Harris, Ferre, Siller, Kononoff, Harrison, and Lester in the foils, Harris and Siller in the duelling swords and Harris, Siller, Moyano, and Kononoff in the sabres.

Schedule of Games For Baseball Team

April 14	Lowell Textile	Away
" 17	Mass. Aggies	"
" 18	Harvard Seconds	Home
" 20	Yale Seconds	Away
" 21	Wesleyan	"
" 26	Boston Univ.	"
" 28	Worcester Poly.	"
May 2	Boston College	"
" 5	Open	"
" 8	Boston Univ.	Home
" 11	Harvard Seconds	Away
" 15	Lowell Textile	Home
" 18	Villanova College	"
" 22	Tufts College	Away

SWIMMERS ENTER INTERCOLLEGIATES

Springfield and Brown Are Considered the Most Likely Winners

Technology's natators will close their season at the New England Intercollegiates at Williams over the week-end. The Engineers have practically no chance this year as the times turned in in practically every event are far superior to the best time ever set by the Cardinal and Gray natators so far this season.

Philip Torchio's forced withdrawal at the last minute still further lessens the chances of the Technology swimmers. Appleton, Puschin, Birnbaum, Brown, Jarosh, Luey and Payson are the Varsity men who will make the trip. The Engineers' best chance will be in the medley relay. They have defeated Brown in this event and stand a good chance of placing down at Williams. Besides the Varsity men, a freshman relay team composed of Baker, Lutz, Mackay and Noyes will be entered.

Springfield Is Favorite

Judging by the looks of this season's scores, Springfield has by far the better chance of walking off with the championship. Bardo is their leading man and he excels in practically every event except the dives. His times in the 100, 440 and the 150-yard backstroke are considerably faster than any other man in the league.

Should he win these three events alone, that will be practically sufficient to win the meet for Springfield. His time for the 100 is 56 2/5 seconds, which is one second better than Van Deusan's of Wesleyan, while Payson's best time is one minute and six seconds.

Brown stands a good chance of coming through with a second. They defeated Wesleyan and Technology, both of whom are in the league, by decisive scores. Litchfield, their dash man, is probably the strongest that Brown boasts of. He has by far the best time of any man in the 50 and does good work in the 100 as well as the relay. Brown also has some very good divers and they stand a good chance of walking off with the diving honors.

Williams Strong in Breast Stroke

Schott of Williams has a time of 2 minutes 41 seconds chalked up as his best time in the breast stroke. This is more than 10 seconds better than the listed time of his nearest competitor. Puschin of M. I. T. placed in the New Englands, but he has not been able to swim this season until the past two weeks. Appleton and Birnbaum are also entered in the breast stroke, but their times are several seconds slower than that of Puschin's.

Laurence Luey and John Jarosh have fair chances to place in their respective events. Luey holds the Institute record for the backstroke and has been constantly clipping seconds off his own record. Jarosh has been doing the 440 in around six minutes flat, and this is considerably faster than he did at the beginning of the season. Both men have a good chance to still further lower their respective records.

ENGINEER BOXERS BATTLE WILDCATS

Feature Bout Probably Will Be Fight Between Team Captains

New Hampshire and Technology will clash in a boxing meet tomorrow night at the former's gym at Durham to try and decide which of the two has the better team. They met earlier in the season and fought to a three to three draw.

When these teams met at the beginning of the season Bolanos of Technology lost the decision to McCooey of New Hampshire in the 135-pound class but the M. I. T. man has won three bouts in succession since then and ought to reverse the former result. Coach Rawson expects the M. I. T. men to take the other two lightweight events, for the Engineers have shown great strength in these classes in recent meets.

It is expected that New Hampshire men will take one or more of the heavier classes, but the 160-pound bout will probably be a toss-up between Svensson of Technology and Grenier of New Hampshire. Svensson is a newcomer and won his initial fight against a New York University man on Monday night.

Captain O'Malley will face Captain Necker of the Wildcats in the heavyweight event, which should be the feature bout and may decide the meet. In the three times the two have met previously, neither has the edge as each won one and the other bout was a draw. The men expected to make the trip are: R. A. Sidur '30, R. R. Peatfield '28, J. J. Bolanos '30, H. Blackwood '28, C. O. Svensson '30, F. E. Mason, and Captain L. J. O'Malley '29.

Dennison House defeated the Tech-nology freshman fencers by the score of 6 to 3 on Wednesday. Lew Hyman starred for the Cardinal and Gray yearlings with victories in two out of three bouts, and Herman Ferre brought the Engineer total up to three by a 5 to 0 win over one of his op-

ponents. The summary: Nasif (D) defeated Deake (T), 5-2; Geralgery (D) defeated Ferre (T), 5-4; Hyman (T) defeated Teebagg (D), 5-3; Nasif (D) defeated Ferre (T), 5-2; Geralgery (D) defeated Hyman (T), 5-1; Teebagg (D) defeated Deake (T), 5-3; Hyman (T) defeated Stevens (D), 5-1; Geralgery (D) defeated Deake (T), 5-4; Ferre (T) defeated Joseph (D), 5-0.

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Dr. Charles G. Abbott '94 Appointed Secretary of Smithsonian Institution

Has Invented Instruments Used
In Measurement of Solar
Energy

By his recent appointment to the secretaryship of the Smithsonian Institution, Dr. Charles Greeley Abbott '94 has attained what is perhaps the highest possible honor that can be conferred upon a scientist. He is the fifth man to hold the position since the founder of the institution eighty-two years ago. The work of his predecessor, Henry Ward Beecher, and Abbott has made the secretaryship worthy to be generally recognized as a kind of presidency for science in America.

In his address Dr. Abbott said nothing about his successor when he said "Friends of the trust, your charge is business, not politics associated. We were going to take the entire administration in the administration of the Smithsonian Institution. That's all we have to say now. We have no political party."

He also spoke of his association with the National Research Council and the Bureau of Standards. When he became director of the Bureau he determined to make him himself the Institute at least for a while. It is known that Abbott

is a specialist in physics and especially in solar energy. During the past year he conducted an experiment during the winter months in which he measured the value of heat lost by Abbott made calculations of the amount of energy and accuracy.

After the experiment had been completed a group of graduate students of the Smithsonian Institution, under the direction of Professor C. L. Smith, recommended an association between the Smithsonian and the University of California.

The special field in which Dr. Abbott is preeminent is that of the sun's radiation and variation. He has invented the majority of the instruments such as the silver disk and watercolor pyrheliometers and the pyrometer necessary for the measurement of the sun's heat. The Smithonian value for the solar constant is accepted as standard throughout the world.

Besides determining the amount of heat per square centimeter per minute emitted by the sun, Dr. Abbott's investigations have proved that this figure is not constant but variable. He has also shown that there appears to be a definite relation between the variation in the radiation from the sun and the earth's weather. Clouds will may some time run short, but the sun's energy is comparatively inexhaustible. Dr. Abbott has already developed a solar clock and his studies on solar radiation have enabled him to map out extensive investigations leading to the practical use of solar energy.

The existing status of Dr. Abbott's scientific labors for thirty-three years has by no means shut him off from a social and spiritual contact with life. He is frequently in touch with students, he is passionately devoted to music. He knows entire operas by heart and, as he says, "there aren't any in the world" whenever he is too weary to sing a full score of the latest musicals. He researched the legend of Roland, "I know every word," and says, "you can never get away if you want to disappear."

JUNIOR PROM POSTERS GO UP IN INSTITUTE

S. COOKING
SIGN UP
Nights of March 12

Junior Prom posters were displayed yesterday for an audience of 1000 at the Hall of Ideas. The posters were a great success and the room of the posters was soon crowded to overflowing. The posters will be exhibited in the Auditorium of the Hall of Ideas until Friday, March 16.

As usual the Junior Class will be given the best chance to show up in Monday. The faculty, the students and graduate students will be allowed to sign up as well as the seniors. Thereafter the sign-up will be open to all students of the Institute until the close of the competition.

SOPH TICKET SALESMEN

There will be a meeting of all those selling tickets to the Sophomore Dance in Room 4152 this afternoon at

Pitt Van Dusen Talks at Student Forum on Sunday

Second Union Student Meeting Will Be Held at the First Baptist Church

Henry Pitt Van Dusen, noted V. M. C. A. student worker, will address a union service of all Greater Boston students next Sunday evening at 7:30 o'clock. He will discuss the question, "Is Religion Reasonable?" This is the second of a series of three Lenten talks and will be held at the First Baptist Church, at the corner of Harrison Street and Commonwealth Avenue.

This address is being given under the auspices of a committee composed of representatives of all student religious groups in the Metropolitan area, and includes students from all denominations. The first of the series was held at Trinity Church two weeks ago, when Dr. Henry Stearns of New York was the speaker.

Mr. Van Dusen was originally invited to speak before the New Bay Religious Committee, the leading committee in organization of the larger committee. At the request of the committee chairman, Rev. Mr. Taylor, Dr. Stearns of the New Bay Students Committee asked Mr. Van Dusen to speak at a number of the local meetings.

Following the service on Sunday, there will be a social hour in which Mr. Van Dusen will be present. Address to a number of questions from the floor will be invited. It is expected

that the discussion will begin at the Second Union Service on March 25 at the First Baptist Church. It is known that in this church there will be a number of the general types of the various religious groups.

DETAIL SENIOR WEEK WORK TO COMMITTEES

Nine Subcommittees Named By General Committee

Nine subcommittees were chosen by the Senior Week Committee for the various details of the work and were appointed on March 25. These committees were most noticeable perhaps in that it is expected that details of the preparations may be made public in the near future. The personnel of these committees is as follows:

Picnic—Paul E. Kline, chairman; Carl J. Bernhardi, Robert J. Sturtevant and Ascan H. Merrick.

Pop Concert—James Bernhardi, chairman; Walter J. Davis and George P. Dale.

Banquet—Peter H. Kirwan, chairman; James A. O'Brien and Edward A. Clark.

Decorations Sunday—Norman M. Case, chairman, and Christopher M. Clark.

Class Day—Donald H. Party, chairman; and Edward F. Goffe.

Tea Dance—Robert Clark, chairman; and Robert J. Joyce.

Prom—Charles H. Tappan, chairman; Morris M. Colton, Paul W. Clark and Alfred S. Meagher.

Scouts—John C. Brinkley, chairman; Alvin H. Pearson and Alfred S. Meagher.

Publicity and Signups—Allen S. Beckford, chairman; George F. Chittick, Francis Gray and Robert J. Green.

As previously announced, the Senior Week Committee which the entire senior class committee elected to be composed of Gilbert J. Schermer, chairman; Frank A. Kinsman, secretary; Horatio A. Dimock, treasurer; Elsie G. Gray, manager; and Paul W. Clark, financial manager.

For the Senior Week as the experiments were approved the Senior Week Committee has appointed Arthur M. Smith and John R. Stevens to finance and administer.

AUTOMOTIVE LECTURE

Dr. H. C. Franklin of the Bureau of Standards will speak this afternoon at 7 o'clock in Room 4270. All interested in automotive engineering are invited.

DYNAMO LAB EXPERIMENTS

Reports of experiments performed in the Dynamo Laboratory during the first term 1927-28 may be obtained at the Instrument Room (10-028) until March 15, 1928. Reports not called

THE TECH

POP CONCERT WILL BE HELD MARCH 31

Tickets will be placed on sale shortly for the annual Pop Concert which is customarily given by the Combined Musical Clubs at this time of the year. The Pop Concert idea is taken from the Pop Concerts given at Symphony Hall each year where a concert of good music is given at popular prices. The affair here is always formal and cooperative with the annual spring and winter concerts. It was begun three years ago as an experiment, but its immediate success made it an annual affair.

This year's concert will be held at Walker Memorial on Friday evening, March 25, the tickets being 75 cents apiece. All of the musical clubs of the Institute will participate in the concert, as will the several specialty numbers.

Automatic Cable Reeler Invented By Institute Man

Machine Tests For Insulation During Process of Manufacture

Mr. James L. Entwistle '21, of the Electrical Engineering Department, has invented a machine which will reel up cable during the process of manufacture and subject the cable to a high tension test at the same time. It has recently been announced.

This invention, which Mr. Entwistle has sold to the General Electric Company, will eliminate a hazard from the industry, as the previous method of testing wire was dangerous and frequently resulted in accidents of a serious nature. Among the patents that he has applied for to safeguard his invention are many dealing especially in the solution of his problem.

In his description of the automatic reeler Mr. Entwistle says that "it is intended for cable from 1/2 to 1/8 inch in diameter for coils from 1/2 to 10 feet long and weighing up to one ton. The high tension tests on the insulation are designed for any voltage and frequency desired."

Representatives of wire plants throughout the country have been interested in this invention. He states that the machine will demonstrate its merits especially as it was tested in New England by Mr. Entwistle with much success. The market upon the present is estimated to range in importance of one and one-half million dollars.

BUSH AND BAUSCH WRITE FOR T. E. N.

Articles on Optics and the Telegraph Featured

Professor Alexander Bush '16 has developed the new Gamma Ray and Interplanetary Machine in the Radiation Research Laboratory. Research has included the writing of a chapter on his work in the March issue of the *Radio Engineering News*. A new article will appear Monday and Tuesday.

On Saturday evening a complete display of the Interplanetary and Gamma Ray machines will be on view during the meeting of the Massachusetts Society of Engineers and Technicians.

The society is the largest in the country and is well organized. It is the result of the efforts of the Massachusetts Society of Engineers and Technicians.

On Saturday evening a complete display of the Interplanetary and Gamma Ray machines will be on view during the meeting of the Massachusetts Society of Engineers and Technicians.

On Saturday evening a complete display of the Interplanetary and Gamma Ray machines will be on view during the meeting of the Massachusetts Society of Engineers and Technicians.

AUTOMOTIVE EXPERT WILL SPEAK TODAY

Professor H. C. Franklin, chairman of the Department of Automotive Engineering, will be the topic of a talk to be delivered by Dr. H. C. Franklin, Chairman of the Division of Steel and Power of the U. S. Bureau of Standards. Dr. Franklin comes at the invitation of President Samuel W. Stratton and will speak in Room 4270 at 7 o'clock. All members of the student body and instruction staff are invited.

Dr. Franklin has played a prominent part in the activities of the Society of Automotive Engineers, and is well known in his profession for the work he has carried out. This afternoon he will probably discuss automotive engineering in connection with the problems and methods of research carried on in his division of the Bureau of Standards. An opportunity for questions and discussion will be

Extension Course In Aeronautics Is Begun at Institute

Series of Eight Lectures Will Cover Elementary Aero Theory

"Fundamental Theory and Practice of Aeronautics" is the name of the new extension course which was opened recently. The first meeting of the course was held in Room 5290 on Tuesday, March 13, at 7:30 p.m., in charge of Instructor Walter F. Haas, a committee representative engineer of the Institute. There are to be eight lectures in the course for which the fee is \$10.

A very essential requirement in aviation today is a thorough knowledge not only of practice but also of the underlying theory. The aim of this course is to present the principles of aerodynamics which are of value to persons who plan to enter the industry, or who wish to keep in touch with the progress which is to be made in aviation.

During the period of the course nine subjects will be lectured upon. In many of these lectures the subjects under discussion will be illustrated by a complete set of lantern slides. The following topics will be touched upon during the course: Types of Aircraft; Component Parts of Aircraft; Elementary Theory of Lift; Instruments; Specifications; Materials of Construction; Theory and Construction of the Propeller; Types of Aircraft Engines and Variations in Design; and the Performance estimate of a definite airplane with calculations and curves.

Instructor Haas in charge of the course has had a wide experience in aeronautical work. In 1917-18 he worked on the design of a battle plane for the Curtis Company which was tested and flown successfully. In 1918-19 he was engaged on airplane production for the government at the Springfield Aircraft Company. The period of 1919-20 was spent on research in wire gauge operation at the Institute for the government. Mr. Haas is now Research Associate in Aeronautics at the Institute and has charge of the Naval Reserve Training Corps for Aviation Officers.

ENGINEER GYMNASTS TRAVEL TO HANOVER

Dartmouth Last Year's League Champions

Engineering and Technology's gym team will meet at Hanover tomorrow. Both teams appear to be pretty evenly matched as each of them has defeated Temple. Dartmouth defeated Penn last week, while the Engineers were won slightly below that. The Engineers have been improving steadily and seem to be well balanced team.

Stetler is the leading man on the Hanover team. He is an all around athlete and will give the Engineers considerable opposition in several events. Dartmouth is last year's East Intercollegiate Gymnastic champion and is out to repeat the record this year.

This is the critical meet in the Engineers' league schedule as they have won one meet and lost one. Navy and being in the league. If they succeed in defeating Dartmouth they will stand a good chance of finishing pretty near the top. Princeton will probably walk off with this year's title as they already have several victories and no defeats to their credit.

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